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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/556,220	12/04/2006	Craig B. Thompson	UPN0012-100	4279
34136 Pepper Hamilto	7590 03/21/200 n LLP	EXAMINER		
400 Berwyn Par	rk	RAE, CHARLESWORTH E		
899 Cassatt Road Berwyn, PA 19312-1183			ART UNIT	PAPER NUMBER
			1611	
			MAIL DATE	DELIVERY MODE
			03/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/556,220	THOMPSON ET AL.				
		Examiner	Art Unit				
		CHARLESWORTH RAE	1611				
 Period for	The MAILING DATE of this communication ap Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ F	Responsive to communication(s) filed on <u>09 /</u>	November 2005					
· <u></u>	· · · <u> </u>	s action is non-final.					
'	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	·	ex parto gadyle, 1000 C.B. 11, 10	30 0.0. 210.				
Dispositio	n of Claims						
4) × (Claim(s) <u>1-57</u> is/are pending in the application.						
4:	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) <u> </u>	5) Claim(s) is/are allowed.						
6)□ (6) Claim(s) is/are rejected.						
7) 🗌 (Claim(s) is/are objected to.						
8)🛛 (Claim(s) <u>1-57</u> are subject to restriction and/or	election requirement.					
Applicatio	n Papers						
9)□ T	he specification is objected to by the Examin	er					
-	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
•							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority un	der 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

Status of Claims

Claims 1-57 are currently pending in this application and are the subject of the Office action.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which lack unity of invention under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- I. Claims 1-26, 45-53, drawn to a method of treating an individual who has cancer/inducing apoptosis in vivo in a cancer cell. If this Group is elected, then the below Summarized Species Election is also required.
- II. Claims 27-44, drawn to a method of inducing apoptosis in a cancer cell in vitro. If this Group is elected, then the below Summarized Species Election is also required.
- III. Claims 54-57, drawn to a method of identifying a compound with anticancer activity in vitro. If this Group is elected, then the below Summarized Species Election is also required.

The above inventions lack unity of invention under PCT Rule 13.1 in view of the fact that invention I is drawn to a method of treating an individual who has cancer/inducing apoptosis in vivo in a cancer cell, invention II drawn to a method of inducing apoptosis in a cancer cell in vitro and invention III drawn to a method of

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identifying a compound with anticancer activity in vitro and as evidenced by Gribble et al. (US Patent 5,447,954). Thus, the requirement is proper as the inventions represented above as Groups I-III do not share a common inventive concept under PCT Rule 13.1.

Election of Species regarding Group I-III

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Specifically, applicant is required to elect a single disclosed species from each of the below items for examination purposes:

- 1) a single cancer/cell species e.g. glioblastoma; and
- 2) a single ATP citrase lyase inhibitor e.g. hydroxycitrate; and
- a single tricarboxylate transporter inhibitor e.g. phosphoenolpyruvate.

Each cancer species represent distinct patholigic and clinical conditions.

Also, each ATP citrase lyase inhibitor and each tricarboxylate transporter inhibtor represent different chemical entities which may reasonably exhibit varying or different pharmacologic and pharmaceutical properties. To the extent that these species lack the same or corresponding special features, they do not constitute a general inventive concept. Applicant is required to elect one single specie from each of the above items for examination purposes.

Applicant is required under 35 U.S.C. 121 to elect a <u>single</u> disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be

allowable. Currently, claims 1, 10, 16, 27, 28, 34, 42, 45, 52, 54 are considered generic to the above species.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Applicant is advised that a reply to this requirement <u>must</u> include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Inventorship Notice

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charlesworth Rae whose telephone number is 571-272-6029. The examiner can normally be reached between 9 a.m. to 5:30 p.m. Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, can be reached at 571-272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http:pair-direct.uspto.gov. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 800-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

14 March 2008

/C. R./Examiner, Art Unit 1611

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/Brian-Yong S Kwon/ Primary Examiner, Art Unit 1614